

Jianhong Wu

List of Publications by Year in descending order

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93
papers

4,103
citations

257101

24
h-index

128067

60
g-index

117
all docs

117
docs citations

117
times ranked

3839
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of the Transmission Risk of the 2019-nCoV and Its Implication for Public Health Interventions. <i>Journal of Clinical Medicine</i> , 2020, 9, 462.	1.0	1,048
2	An updated estimation of the risk of transmission of the novel coronavirus (2019-nCov). <i>Infectious Disease Modelling</i> , 2020, 5, 248-255.	1.2	573
3	Traveling Wave Fronts of Reaction-Diffusion Systems with Delay. <i>Journal of Dynamics and Differential Equations</i> , 2001, 13, 651-687.	1.0	437
4	Media/Psychological Impact on Multiple Outbreaks of Emerging Infectious Diseases. <i>Computational and Mathematical Methods in Medicine</i> , 2007, 8, 153-164.	0.7	226
5	Exponential Stability of Nonlinear Systems With <i>Delayed Impulses</i> and Applications. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 4024-4034.	3.6	149
6	Travelling waves for delayed reaction-diffusion equations with global response. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 229-261.	1.0	126
7	Sufficient Stability Conditions of Nonlinear Differential Systems Under Impulsive Control With State-Dependent Delay. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 306-311.	3.6	120
8	Travelling waves of a diffusive Kermack-McKendrick epidemic model with non-local delayed transmission. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 237-261.	1.0	107
9	Developing a temperature-driven map of the basic reproductive number of the emerging tick vector of Lyme disease <i>Ixodes scapularis</i> in Canada. <i>Journal of Theoretical Biology</i> , 2013, 319, 50-61.	0.8	70
10	Existence, Uniqueness and Asymptotic Stability of Traveling Wavefronts in A Non-Local Delayed Diffusion Equation. <i>Journal of Dynamics and Differential Equations</i> , 2007, 19, 391-436.	1.0	64
11	A compartmental model for the analysis of SARS transmission patterns and outbreak control measures in China. <i>Applied Mathematics and Computation</i> , 2005, 162, 909-924.	1.4	59
12	Structured population on two patches: modeling dispersal and delay. <i>Journal of Mathematical Biology</i> , 2001, 43, 37-51.	0.8	51
13	Centre manifolds for partial differential equations with delays. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1992, 122, 237-254.	0.8	50
14	Characterizing Information Diffusion in Online Social Networks with Linear Diffusive Model. , 2013, , .		49
15	Worldwide Trends in Prevalence, Mortality, and Disability-Adjusted Life Years for Hypertensive Heart Disease From 1990 to 2017. <i>Hypertension</i> , 2021, 77, 1223-1233.	1.3	47
16	Implication of vaccination against dengue for Zika outbreak. <i>Scientific Reports</i> , 2016, 6, 35623.	1.6	36
17	Stage-structured population systems with temporally periodic delay. <i>Mathematical Methods in the Applied Sciences</i> , 2015, 38, 3464-3481.	1.2	29
18	Slowing the evolution of insecticide resistance in mosquitoes: a mathematical model. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 2127-2148.	1.0	28

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19	A mathematical model for pathogen cross-contamination dynamics during produce wash. <i>Food Microbiology</i> , 2015, 51, 101-107.	2.1	28
20	Acellular pertussis vaccines effectiveness over time: A systematic review, meta-analysis and modeling study. <i>PLoS ONE</i> , 2018, 13, e0197970.	1.1	28
21	Further results on the stability of delayed cellular neural networks. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003, 50, 1239-1242.	0.1	27
22	Global dynamics of delayed reaction-diffusion equations in unbounded domains. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2012, 63, 793-812.	0.7	27
23	Global dynamics of a chemostat competition model with distributed delay. <i>Journal of Mathematical Biology</i> , 1999, 38, 285-316.	0.8	26
24	Impact of biodiversity and seasonality on Lyme-pathogen transmission. <i>Theoretical Biology and Medical Modelling</i> , 2014, 11, 50.	2.1	25
25	Monotone Semiflows Generated by Neutral Functional Differential Equations With Application to Compartmental Systems. <i>Canadian Journal of Mathematics</i> , 1991, 43, 1098-1120.	0.3	25
26	DEFORMATION OF TRAVELING WAVES IN DELAYED CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 797-813.	0.7	23
27	Quantification of Bird-to-Bird and Bird-to-Human Infections during 2013 Novel H7N9 Avian Influenza Outbreak in China. <i>PLoS ONE</i> , 2014, 9, e111834.	1.1	21
28	Modelling the impact of antibody-dependent enhancement on disease severity of Zika virus and dengue virus sequential and co-infection. <i>Royal Society Open Science</i> , 2020, 7, 191749.	1.1	20
29	The potential impact of climate change on the transmission risk of tick-borne encephalitis in Hungary. <i>BMC Infectious Diseases</i> , 2020, 20, 34.	1.3	20
30	An optimal strategy for HIV multitherapy. <i>Journal of Computational and Applied Mathematics</i> , 2014, 263, 326-337.	1.1	19
31	Modeling Lyme disease transmission. <i>Infectious Disease Modelling</i> , 2017, 2, 229-243.	1.2	19
32	Complex dynamics in a delay differential equation with two delays in tick growth with diapause. <i>Journal of Differential Equations</i> , 2020, 269, 10937-10963.	1.1	19
33	A window of opportunity for intensifying testing and tracing efforts to prevent new COVID-19 outbreaks due to more transmissible variants. <i>Canada Communicable Disease Report</i> , 2021, 47, 329-338.	0.6	18
34	Impulsive control of unstable neural networks with unbounded time-varying delays. <i>Science China Information Sciences</i> , 2018, 61, 1.	2.7	17
35	Impact of visitors and hospital staff on nosocomial transmission and spread to community. <i>Journal of Theoretical Biology</i> , 2014, 356, 20-29.	0.8	16
36	Association between sleep problems and health-related quality of life in Canadian adults with chronic diseases. <i>Sleep Medicine</i> , 2019, 61, 26-30.	0.8	16

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37	Critical diapause portion for oscillations: Parametric trigonometric functions and their applications for Hopf bifurcation analyses. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 1363-1376.	1.2	16
38	Existence and Uniqueness of Solutions for Abstract Neutral Differential Equations with State-Dependent Delay. <i>Applied Mathematics and Optimization</i> , 2020, 81, 89-111.	0.8	16
39	Quantifying the shift in social contact patterns in response to non-pharmaceutical interventions. <i>Journal of Mathematics in Industry</i> , 2020, 10, 28.	0.7	16
40	Attractive Periodic Orbits in Nonlinear Discrete-time Neural Networks with Delayed Feedback. <i>Journal of Difference Equations and Applications</i> , 2002, 8, 467-483.	0.7	15
41	Assessing systemic and non-systemic transmission risk of tick-borne encephalitis virus in Hungary. <i>PLoS ONE</i> , 2019, 14, e0217206.	1.1	15
42	Global Continua of Rapidly Oscillating Periodic Solutions of State-Dependent Delay Differential Equations. <i>Journal of Dynamics and Differential Equations</i> , 2010, 22, 253-284.	1.0	14
43	Global, Regional, and National Burden of Myocarditis and Cardiomyopathy, 1990–2017. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 610989.	1.1	14
44	A renewal equation model to assess roles and limitations of contact tracing for disease outbreak control. <i>Royal Society Open Science</i> , 2021, 8, 202091.	1.1	14
45	Development of the 12-Item Social Media Disinformation Scale and its Association With Social Media Addiction and Mental Health Related to COVID-19 in Tunisia: Survey-Based Pilot Case Study. <i>JMIR Formative Research</i> , 2021, 5, e27280.	0.7	14
46	MULTIPLE PERIODIC PATTERNS VIA DISCRETE NEURAL NETS WITH DELAYED FEEDBACK LOOPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 2915-2923.	0.7	12
47	Existence, Uniqueness and Qualitative Properties of Global Solutions of Abstract Differential Equations with State-Dependent Delay. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2019, 62, 771-788.	0.2	12
48	Epidemiology of physical and mental comorbidity in Canada and implications for health-related quality of life, suicidal ideation, and healthcare utilization: A nationwide cross-sectional study. <i>Journal of Affective Disorders</i> , 2020, 263, 209-215.	2.0	12
49	A New Method of Lyapunov Functionals for Delayed Cellular Neural Networks. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2004, 51, 2263-2270.	0.1	11
50	Associations of sleep problems with health-risk behaviors and psychological well-being among Canadian adults. <i>Sleep Health</i> , 2020, 6, 657-661.	1.3	11
51	Topological transversality and periodic solutions of neutral functional differential equations. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1999, 129, 199-220.	0.8	10
52	Existence of periodic solutions to integro-differential equations of neutral type via limiting equations. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1992, 112, 403-418.	0.3	9
53	Application of spatial multicriteria decision analysis in healthcare: Identifying drivers and triggers of infectious disease outbreaks using ensemble learning. <i>Journal of Multi-Criteria Decision Analysis</i> , 2022, 29, 23-36.	1.0	9
54	Modelling the evolution of drug resistance in the presence of antiviral drugs. <i>BMC Public Health</i> , 2007, 7, 300.	1.2	8

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55	Second-order differentiability with respect to parameters for differential equations with adaptive delays. <i>Frontiers of Mathematics in China</i> , 2010, 5, 221-286.	0.4	8
56	A simple in-host model for <i>Mycobacterium tuberculosis</i> that captures all infection outcomes. <i>Mathematical Population Studies</i> , 2017, 24, 37-63.	0.8	8
57	A conceptual model for optimizing vaccine coverage to reduce vector-borne infections in the presence of antibody-dependent enhancement. <i>Theoretical Biology and Medical Modelling</i> , 2018, 15, 13.	2.1	8
58	Effectiveness and feasibility of convalescent blood transfusion to reduce COVID-19 fatality ratio. <i>Royal Society Open Science</i> , 2021, 8, 202248.	1.1	8
59	Determinants of <i>Aedes</i> mosquito density as an indicator of arbovirus transmission risk in three sites affected by co-circulation of globally spreading arboviruses in Colombia, Ecuador and Argentina. <i>Parasites and Vectors</i> , 2021, 14, 482.	1.0	8
60	Optimizing planning and design of COVID-19 drive-through mass vaccination clinics by simulation. <i>Health and Technology</i> , 2021, 11, 1359-1368.	2.1	8
61	Harnessing Artificial Intelligence to assess the impact of nonpharmaceutical interventions on the second wave of the Coronavirus Disease 2019 pandemic across the world. <i>Scientific Reports</i> , 2022, 12, 944.	1.6	7
62	Quantifying the annual incidence and underestimation of seasonal influenza: A modelling approach. <i>Theoretical Biology and Medical Modelling</i> , 2020, 17, 11.	2.1	6
63	Modelling the linkage between influenza infection and cardiovascular events via thrombosis. <i>Scientific Reports</i> , 2020, 10, 14264.	1.6	6
64	Large-scale frequent testing and tracing to supplement control of Covid-19 and vaccination rollout constrained by supply. <i>Infectious Disease Modelling</i> , 2021, 6, 955-974.	1.2	6
65	Illicit Drug Use in Canada and Implications for Suicidal Behaviors, and Household Food Insecurity: Findings from a Large, Nationally Representative Survey. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6425.	1.2	6
66	Projective Clustering Using Neural Networks with Adaptive Delay and Signal Transmission Loss. <i>Neural Computation</i> , 2011, 23, 1568-1604.	1.3	5
67	AGILE: A terminal energy efficient scheduling method in mobile cloud computing. <i>Transactions on Emerging Telecommunications Technologies</i> , 2015, 26, 1323-1336.	2.6	5
68	Non-pharmaceutical intervention levels to reduce the COVID-19 attack ratio among children. <i>Royal Society Open Science</i> , 2022, 9, 211863.	1.1	5
69	Topological dimensions of global attractors for semilinear PDE's with delays. <i>Bulletin of the Australian Mathematical Society</i> , 1991, 43, 407-422.	0.3	4
70	On a hyperlogistic delay equation. <i>Glasgow Mathematical Journal</i> , 1996, 38, 255-261.	0.2	4
71	Modeling SARS, West Nile Virus, Pandemic Influenza and Other Emerging Infectious Diseases: A Canadian Team's Adventure. <i>Series in Contemporary Applied Mathematics</i> , 2009, , 36-63.	0.8	4
72	Association Bundle - A New Pattern for Association Analysis. , 2006, , .		3

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73	COMPLETE CLASSIFICATION OF EQUILIBRIA AND THEIR STABILITY IN A DELAYED NEURON NETWORK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2017-2027.	0.7	3
74	Treatmentâ€“donation-stockpile dynamics in ebola convalescent blood transfusion therapy. Journal of Theoretical Biology, 2016, 392, 53-61.	0.8	3
75	How ticks keep ticking in the adversity of host immune reactions. Journal of Mathematical Biology, 2019, 78, 1331-1364.	0.8	3
76	Comparison Theorems of Liapunov-Razumikhin Type for NFDEs With Infinite Delay. Canadian Journal of Mathematics, 1995, 47, 500-526.	0.3	3
77	Bivariate collocation for computing R0 in epidemic models with two structures. Computers and Mathematics With Applications, 2021, , .	1.4	3
78	PARTCAT: A Subspace Clustering Algorithm for High Dimensional Categorical Data. , 2006, , .		2
79	Determinants of the Final Size and Case Rate of Nosocomial Outbreaks. PLoS ONE, 2015, 10, e0138216.	1.1	2
80	External inputs, stable equilibria and complete stability of CNNs. International Journal of Circuit Theory and Applications, 2003, 31, 133-138.	1.3	1
81	STRUCTURED INFLUENZA MODEL FOR META-POPULATION. International Journal of Biomathematics, 2009, 02, 525-541.	1.5	1
82	Modeling and Simulation Studies of West Nile Virus in Southern Ontario Canada. Series in Contemporary Applied Mathematics, 2009, , 331-343.	0.8	1
83	Synchronized Tick Population Oscillations Driven by Host Mobility and Spatially Heterogeneous Developmental Delays Combined. Bulletin of Mathematical Biology, 2021, 83, 61.	0.9	1
84	Optimal Reopening Pathways With COVID-19 Vaccine Rollout and Emerging Variants of Concern. Frontiers in Public Health, 2021, 9, 729141.	1.3	1
85	Convergence and stability analysis of mean-shift algorithm on large data sets. Statistics and Its Interface, 2016, 9, 159-170.	0.2	1
86	Effect of General Cross-Immunity Protection and Antibody-Dependent Enhancement in Dengue Dynamics. Computational and Mathematical Methods, 2022, 2022, 1-22.	0.3	1
87	PARTCAT: A Subspace Clustering Algorithm for High Dimensional Categorical Data. , 0, , .		0
88	ZOONOTIC VISCERAL LEISHMANIASIS: A NOVEL MODEL INVOLVING DYNAMIC INTERACTIONS OF HUMANS, DOGS AND SANDFLIES. , 2015, , .		0
89	Global dynamics of an epidemiological model with age-of-infection dependent treatment rate. Ricerche Di Matematica, 2018, 67, 125-140.	0.6	0
90	Coupled Systems of Renewal Equations for Forces of Infection through a Contact Network. Canadian Mathematical Bulletin, 2020, 63, 624-632.	0.3	0

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91	Association Bundle Identification. , 2009, , 66-70.		0
92	Estimating Infection Risk of Tick-Borne Encephalitis. Lecture Notes on Mathematical Modelling in the Life Sciences, 2020, , 37-49.	0.1	0
93	Modelling & Trypanosoma cruzi & Trypanosoma rangeli co-infection and pathogenic effect on Chagas disease spread. Discrete and Continuous Dynamical Systems - Series B, 2022, .	0.5	0